

Inspection Promotes Stout To Foreman

Assumed New Duties First Of August

Production Inspection in the Technical Division announces the promotion of Hubert E. Stout to inspection foreman. The promotion is effective August 1.

Stout, a native of Knoxville, was in the U. S. Army briefly in 1946. He worked with the Tennessee Mill and Mine Supply from 1944 until 1945 . . . with Harris and Bridges Furniture, Knoxville, from 1947 until 1950. In Detroit with the Packard Motor Car Company he worked from 1950 until 1952. He returned to Knoxville and worked with Standard Coffee Company and American Bakeries before coming to Y-12 April 14, 1954.

The Stouts live on their "baby farm" of 25 acres on Route 11, Texas Valley Drive, Knoxville. Mrs. Stout is the former Louise Bridges, and the couple has one son Ronald, employed at the Knoxville News-Sentinel.

The Stouts like to camp, fish and are amateur antique collectors.

ASM Picnic Set August 17 At Concord

The American Society for Metals will hold its annual picnic at Concord Park, Saturday, August 17, at 1 p.m. Hamburgers and hot dogs will be provided . . . to accompany the swimming, tennis and badminton. The cargo is \$1.50 for adults, \$.75 for teenagers and \$.50 for children. Maximum charges per family is \$4.

Contact your ASM representative for reservations.



Hubert E. Stout

Uppuluri Final Speaker For Statistics Lecture

Ram Uppuluri will conduct the final lecture in the Statistics and Probability series of talks next Monday. His subject will be "Elements of Stochastic Processes."

The lecture is set for Monday, August 12, at 9 a.m. in the Central Auditorium of ORNL's building, and ends the 10-week series of talks.

Tulane's Purrington Is Physics Speaker

R. D. Purrington, Tulane University, will lead this week's Physics Division seminar. His subject will be "Low Energy Neutron-Dueteron Scattering."

The seminar is set for Friday, August 9, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

NEW FORMULA

Perhaps the best way to live happily ever after is not to be after too much!

TVA Awarded New Reactor Permit

The Atomic Energy Commission's Division of Reactor Licensing has issued a permit to the Tennessee Valley Authority for construction of a third nuclear power plant at its Browns Ferry Nuclear Power Station near Decatur, Alabama.

TVA's Browns Ferry Unit No. 3 will use a boiling water reactor and will have a net electrical output of approximately 1,065,000 kilowatts. This unit is virtually identical to Units 1 and 2 which are now being built at the Browns Ferry site in Limestone County on the north shore of Wheeler Reservoir. General Electric Company will furnish the nuclear steam supply system, turbogenerator and auxiliary equipment. TVA will design and construct the plant. The estimated cost of construction of Unit 3, including transmission facilities, is \$145,000,000. The company plans to have Unit 3 in commercial operation by October, 1972.

Issuance of the permit follows reviews by the AEC regulatory staff and the Commission's Advisory Committee on Reactor Safeguards and a public hearing by an Atomic Safety and Licensing Board. The board conducted the hearing on July 1 in Athens, Alabama, and issued a decision on July 30 authorizing issuance of the permit. The permit and the board's decision are subject to review by the Commission and to any order the Commission may make on or before September 13, 1968.

COUNTING FRIENDS

"It is not how many friends you've won in life that counts, but how many you have left. That is the acid test. For it is easy to make them, harder to hold them." Elmer Wheeler.

UCC Sales Up Slightly For First Half Of 1968

Union Carbide Corporation's sales for the first six months totaled \$1,290 million, an increase of three per cent over the \$1,247.4 million reported for the corresponding period of 1967. The latest figures on sales and earnings were released recently by Birny Mason Jr., chairman of the board. Because of several adverse factors, earnings decreased 11 per cent from \$90.1 million, or \$1.49 a share, in the first half of 1967 to \$80.0, or \$1.32 a share, in the first half of 1968. Provision for the new 10 per cent tax surcharge accounted for approximately six cents a share.

Sales for the second quarter amounted to \$661 million, compared with \$632.6 million in the second quarter of 1967, an increase of five per cent. Earnings, after giving effect to the surtax, were \$40.2 million, or 66 cents a share, compared with \$46.2 million, or 76 cents a share, in the second quarter of 1967. Without the surtax, earnings would have been approximately three cents a share higher.

Earnings for the first quarter of 1968 were previously reported as \$41.9 million, or 69 cents a share. These will be restated at \$39.8 million, or 66 cents a share, to give effect to the new surtax. First-quarter sales and earnings and second-quarter figures are preliminary.

Commenting on the improvement in sales, Mason said, "The increase in demand has been felt rather generally throughout the corporation's major product groups, both here and overseas. Sales of consumer and related products have been particularly strong."

Heavy Start-Up Costs—Labor Costs

Concerning earnings, he stated, "Heavy start-up charges continue to burden current earnings. In addition, we have been affected by continually increasing labor costs as well as price declines in certain of our product groups, particularly plastics and industrial gases."

Mason stated that although start-up expenses at the large new chemical complex at Taft, Louisiana, are still high, operations there have recently shown marked improvement and the major units are functioning with increasing efficiency. Had it not been for the unusual operating difficulties experienced at this one location, it is estimated that earnings for the first half of 1968 would have been slightly higher than for the first half of 1967.

In commenting on an unfortunate explosion that occurred at the Taft plant in May, he noted that some of the units involved are already back in production and that the effect of the accident on the corporation's sales for the year will not be substantial. He said that the cost of repair and rebuilding in excess of the amount compensated for through insurance will be spread over the remainder of the year. This additional cost, together with that of other uninsured losses that have been incurred, is expected to amount to about five cents a share in 1968.

Outlook Dependent On Economy as a Whole

With regard to the remainder of the year, Mason said that Union Carbide continues to anticipate modest gains but he could not predict their amount or timing. "How well we do for the year as a whole," he said, "will depend markedly on the general level of the economy, on the trend of selling prices for our products, and on our success in bringing new production facilities to full and efficient operation."

K-25 Readies Shipment For Haddam Neck Reactor

The Oak Ridge Gaseous Diffusion Plant is preparing a \$7,124,000 order of enriched uranium for use in the Connecticut Power Plant at Haddam Neck, Connecticut.

The order represents 74,900 pounds of uranium hexafluoride enriched to 3.67 per cent in uranium-235. The enriched uranium will be shipped to the Nuclear Materials and Equipment Corporation, Apollo, Pennsylvania, for further processing. It will later be fabricated into fuel elements by the Westinghouse Electric Corporation, Pittsburgh.

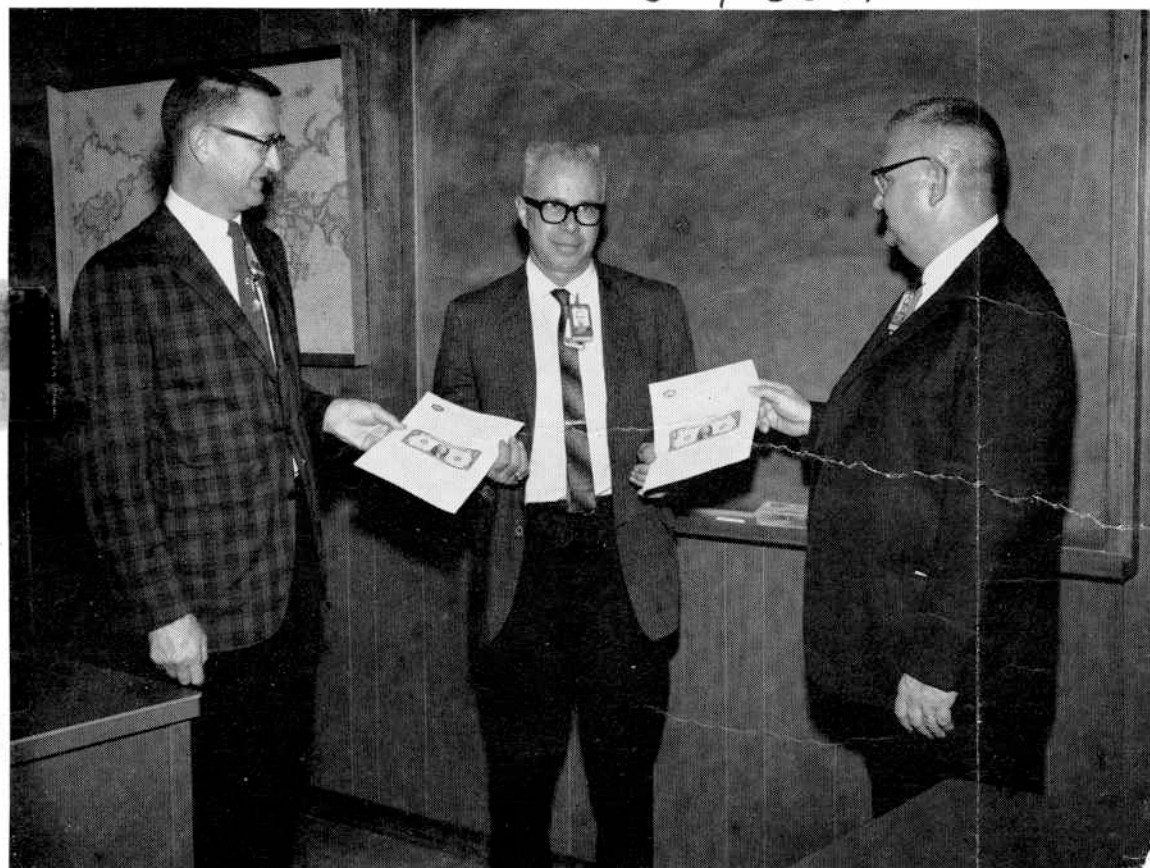
The Connecticut Yankee Atomic Power Plant was originally built by Westinghouse and it has been in operation since the middle of 1967.

NON-VOTERS

Non-voters in the 1964 presidential election could have elected a president of their own. In 1964, Johnson received 37.8 per cent of those of voting age; Goldwater took 23.9 per cent. Not voting: 38.3 per cent!

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
135 Days Or
3,988,000 Man-Hours
(Unofficial Estimate)
Through August 4
Without a Disabling
Injury
Safety At Home
At Work, At Play



TWO U.S. GOVERNMENT PATENT APPLICATIONS have been filed in George R. Peterson's name. One was for his development "High Density Isotropic Graphite," and the other was for "Brazing Graphite to Graphite." Above he receives congratulatory letters from Dr. C. E. Larson from the hands of Harvey Kite, left, and W. K. Whitson, right.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

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Industrial
Editor's
Association

American Association Industrial Editors

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Joe Evans' Rites Held In Knoxville

The plant sadly marks the death of Robert H. (Joe) Evans, who died at a Knoxville hospital, Saturday, July 27. Mr. Evans, who had been here since early 1944, was a materials supervisor in the Stores Department.



Joe Evans

A native of Ravensford, North Carolina, Mr. Evans worked with the Quartermaster of the U.S. Army from 1934 until 1941, with the Tennessee Valley Authority from 1941 until 1943, and with the American Enka Corporation shortly before coming here during the war years. The Evans home is at 5706 Woodleaf Drive, Knoxville. Survivors include his wife Mrs. Margaret Johnson Evans; a son Jack L. Evans; mother, Mrs. Marusla Evans, Asheville, North Carolina; brothers, Felix, Asheville; Rufus, Houston, Texas; and Eddie, Kingston (in Y-12's Electrical Engineering).

Funeral services were held Monday, July 29, at the Fountain City United Methodist Church, with the Reverend Gordon Sterchi and Dr. Thomas F. Chilcote officiating. Burial followed in Lynn-hurst Cemetery.

Deepest sympathy is extended to the Evans family.

Techniques Topic For Camera Club

Photographic techniques will be illustrated and discussed by several experts for the Carbide Camera Club Tuesday, August 13, at 8 p.m. in the Fellowship Hall of First United Presbyterian Church, Turnpike and LaFayette.

The instructional slide show provided by the techniques division of the Photographic Society of America covers "portraiture," "etching," and other helpful hints for a broad range of interest. In addition, member's contributions to the August competition, "Religion" will be shown and discussed.

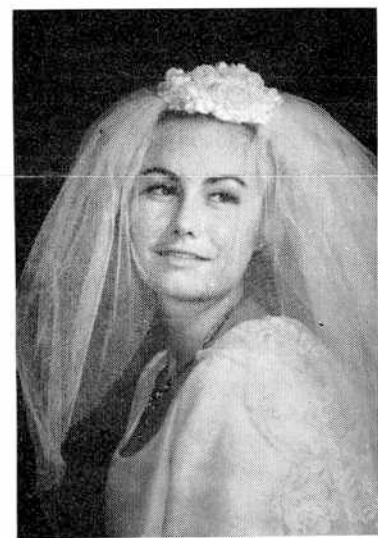
Fred de Serres, Biology Division, took first prize in July competition, "Senior Citizens," with Bill Harper, Y-12, and Peggy Turner, Biology, placing second and third respectively.

ONENESS vs. SAMENESS

"That which is to be most desired in America is oneness and not sameness. Sameness is the worst thing that could happen to the people of this country. To make all people the same would lower their quality, but oneness would raise it." Stephen S. Wise.



Mrs. Phillip Lee Torres



Mrs. Larry Richard Gregory

GREGORY-MARLIN

St. Mary's Catholic Church, Oak Ridge, was the scene of the wedding of Miss Alice Mae Marlin and Second Lieutenant Larry Richard Gregory. The rites were held at 5 p.m. Saturday, July 13, with Father Thomas Hicks officiating.

The bride is the daughter of Mr. and Mrs. Frank Marlin, 177 Outer Drive, Oak Ridge. (Mr. Marlin is in Y-12's Buildings, Grounds and Maintenance Shops.) The groom is the son of Mr. and Mrs. William A. Rogers Jr., 744 Winthorne Drive, Nashville, Tennessee.

Given in marriage by her father, the bride wore a self-styled gown of floor length candlelight silk. The empire styling featured short sleeves and a chapel-length train of chantilly lace. The veil was held by 12 rose buds of satin and the bride carried a cascade of gardenias.

Mrs. Wade provided special nuptial music at the ceremony.

Miss Ina Sue Marlin, sister of the bride, was maid of honor. Other attendants were Misses Ruth Owen Marlin, sister of the bride, Dorothy Ann Ralls, both of Oak Ridge, and Mrs. William E. Hodges, Nashville.

The groom's best man was Joe Brakebill, Atlanta, and groomsmen were Bill Drumwright, Mc-



TORRES-TILLEY

A double-ring ceremony, Saturday, July 6, united Miss Donna Marie Tilley and Mr. Phillip Lee Torres in marriage. The candle-light ceremony was performed at the Glenwood Baptist Church, Oak Ridge, by the Reverend James H. Winter.

The bride is the daughter of Mr. and Mrs. Eliga Tilley, 106 Darwin Road, Oak Ridge. (Mr. Tilley is in Y-12's Casting Department.) The bride is also the granddaughter of Mr. John A. Tilley, and Mr. and Mrs. L. V. Cox Sr. of Maryville. The bridegroom is the son of Mrs. Marjory P. Torres, Canoga Park, California, and the late Mr. Torres.

Mrs. L. V. Cox Jr. and Miss Kathy Cox, Alcoa, played and Mrs. Hewelette R. Tipton sang for the rites.

Mr. Tilley gave his daughter in marriage. She wore a floor length wedding gown of chantilly lace over satin, featuring an empire bodice. The round neckline was engulfed in sequins and pearls. The chapel length train was of matching chantilly lace, embroidered with scalloped lace, hand appliqued with sequins and seed pearls. Her veil of silk illusion was held by a rose of silk organza and lace. The bride carried a cascade of white glameillas.

Mrs. Don W. Bible, Oak Ridge, was the bride's matron of honor. Bridesmaids were Miss Alice Kaye White, Maryville; Miss Stella Louise Hutsell, Detroit; and Mrs. James Carter, Knoxville; all cousins of the bride. Junior bridesmaids were Miss Cynathia Ann Tilley, sister of the bride, and Miss Linda Carol Milhorn, Oak Ridge.

Donald L. LeQuire, Alcoa, served as the groom's best man. Groomsmen were Mike Ketner, Oak Ridge; Don Clark, Maryville; and James Carter, Knoxville. William J. Gibson Jr., Bristol, was ringbearer.

A reception honored the couple at the Alexander Motor Inn immediately after the wedding.

The couple will be residing temporarily in Louisville, Kentucky, and will eventually make their home in Canoga Park, California.

Minnville, Ed Hodges, Nashville, and Jim Free, Columbia.

A reception honored the couple at the church immediately after the wedding.

Both the bride and groom are graduates of Middle Tennessee State University, where the groom was a member of Chi Alpha Pi and she was a member of Delta Phi Gamma.

The couple will make their home at Ft. Meade, Maryland, where the groom is stationed with the United States Army.

Credit Union Declares Dividend Recently

A semi-annual dividend of five per cent per annum for the first six months of 1968 has been declared by the board of directors of the Y-12 Employees Federal Credit Union.

Officials state that the dividend has been applied to members' share accounts, and will be reflected in the next statement to be mailed to members.

Plug security leaks.



FOR MORE THAN 15 YEARS of loyal service to Union Carbide Corporation, Joe F. Davis, right, is congratulated above on his early retirement last week. U. L. Alspaugh, Area Five Maintenance, presents Davis his handsome retirement certificate.



ALFRED L. ROSENBALM, LEFT, receives the felicitations of W. O. Elam, as he retired from Y-12 last week. Guard Rosenbalm lives at Norris on his small farm, and worked in Y-12 more than 15 years before his early retirement.



MISS BILLIE G. RAMSEY WOUND UP more than 24 years of company service last week as she elected early retirement from Union Carbide. Above, she is presented her retirement certificate by John S. Reece, Chemical Services. Miss Ramsey lives at 2710 Dayton Street, Knoxville.



Ride wanted from Robertsville Road, near Willowbrook Elementary School, to North Portal, straight day. Jim McEver, plant phone 3-7216, home phone Oak Ridge 483-9261.

Ride wanted or will join car pool from vicinity of Winter Garden Food plant, North Broadway, Knoxville, to North or Central

Portal, straight day. Frances H. Weaver, plant phone 3-5261, home phone Knoxville 524-2172.

Ride wanted from Cambridge Hall (Jackson Square area), Oak Ridge, to North or Central Portal, straight day. Jerry Hammitt, plant phone 3-5321.

Ride wanted or will join car pool from Halls Area, Knoxville, to Central Portal, straight day. Ray Edwards, plant phone 3-7781, home phone Knoxville 687-7890.

IN THE RED

In the Soviet Union the state owns everything. In this country, it's the finance company!

Recreation



Monday, August 12

GOLF: Southwest Point, after work, Southwest Point, Kingston. PHYSICAL FITNESS (Women): 7:30 p.m., Oak Ridge High School Girls' Gym.

SOFTBALL: Beginning 6:15 p.m. Pinewood Park. Cardinals vs. Bat Boys; Gashouse Gang vs. K-25 Colts; UCC All Stars vs. J-Birds.

Tuesday, August 13

PHYSICAL FITNESS (Men): 7:30 p.m. Oak Ridge High School Gym.

PISTOL LEAGUE: 6:15 p.m. Oak Ridge Sportsmen's Association.

SOFTBALL: Beginning 6:15 p.m. Pinewood Park. Eagles vs. Braves; Pirates vs. Big Shops; Beta Two vs. White Sox.

CAMERA CLUB: 8 p.m. First United Presbyterian Church, Oak Ridge.

Wednesday, August 14

GOLF: Melton Hill League, after work, Melton Hill, Clinton.

Thursday, August 15

SOFTBALL: Beginning 6:15 p.m. Pinewood Park. Braves vs. UCC All Stars; Bat Boys vs. Eagles; K-25 Colts vs. Pirates.

HORESHOE: 7 p.m. City Courts, Oak Ridge.

Roane County Alley Leagues To Organize

Attention bowlers in the Kingston, Harriman and Rockwood Areas... any team or individual wishing to bowl in the Kingston Lab League on Wednesday at 6 p.m., starting September 4, Tri-Cities Lanes in Midtown... should contact Hobey Thomas, extension 3-6657. The first meeting is set for next Wednesday, August 4.

Eagle No Bird!

A bird is not an eagle... and an eagle is not a bird. In reporting recent golf scoring in the Niota tournament, it was stated that winner Jim Pugh eagled three holes on the front nine... three on the back. What should

Wright-Butler Edge Up At Melton Hill

The Wright-Butler team moved up in the Melton Hill Golf League via a forfeit win over Holly-Tilley last week. The Winstead-Ferguson two took four from Gresham-Brown.

Culberson-Tiller took six from Butler-Wright... and Clabough-Nobles won by forfeit over Carter-Jones.

Five points went to Hamby-Braden over Alvey-Phillips. Rogers-Thompson won four from Morehead-Nelson.

Charley Ferguson fired a 38 scratch score... a 32 net handicap tally for lows of the week.

League standings follow:

Team	W	L
Winstead-Ferguson	44	10
Wright-Butler	43	11
Alvey-Phillips	34	20
Hamby-Braden	32	22
Bell-Burrows	31	23
Culberson-Tiller	27	27
Holly-Tilley	25	29
Gresham-Brown	25	29
Parrott-Parker	25	29
Clabough-Nobles	25	29
Rogers-Thompson	23	31
Carter-Jones	17	37
Butler-Stewart	15	39
Morehead-Poly	12	42

Trues Edge Up In SW Point Race

The True team moved up within shouting distance of the top rung in the Southwest Point Golf League last week by defeating the league-leading Hamill-Plemons for four points.

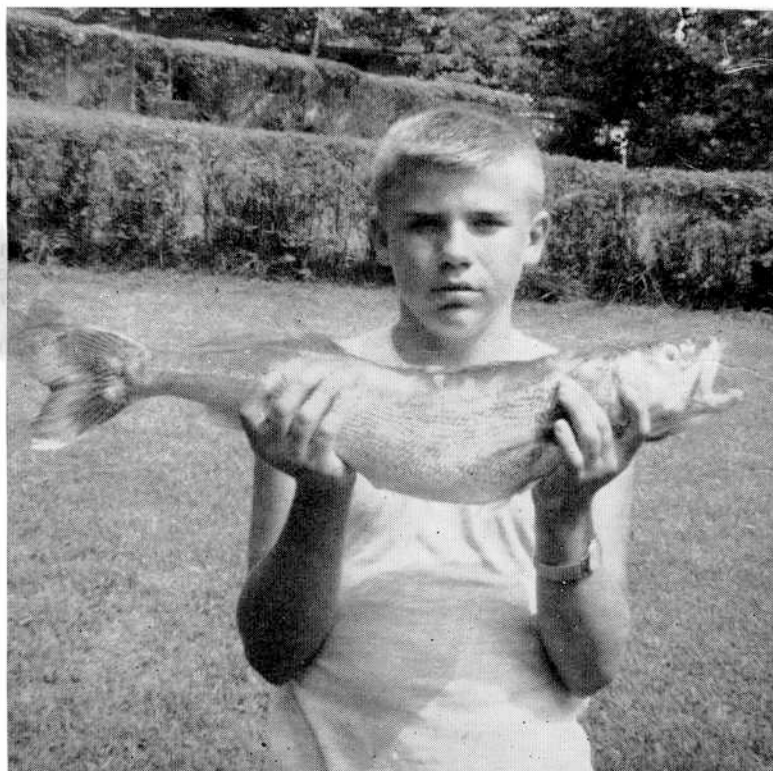
Six-point wins were garnered by Goodwin-Tuell over Garber-Huddleston, and Pryson-Ellis over Mee-Wright. The Ludwig-East team took four from Groppe-Argo.

Bill Mee fired low scratch of the week with a 37. Low handicap honors went to R. L. Ludwig and R. E. Argo, each with 32. Groppe-Argo fired low team scores of 68.

League standings follow:

Team	W	L
Hamill-Plemons	45	15
True-True	42	18
Pryson-Ellis	39	21
Ludwig-East	32	28
Mee-Wright	28	32
Groppe-Argo	20	40
Garber-Huddleston	16	44
Goodwin-Tuell	16	44

have been said was that Jim birdied six holes... three on the front green, three on the back. An Eagle is not a bird! A bird is not an eagle!



ALLAN REYNOLDS HOLDS A WALLEYE PIKE his father, Herb, recently pulled from the deep waters of Norris Lake. Herb, Traffic Department, says the lunker fell victim to a water-dog bomber, whatever that is. The pike is entered in the annual rodeo, so its weight and length are big secrets.



THE BIG PIRATES COME IN STRONG in the Softball League for Y-12. Kneeling, from left, are Walter Porter, Manager G. F. McPherson, W. H. Jarvis, Charles Crume, and Frank "Baldy" Clayton. In the rear are Richard Carter, J. P. Peters, Bill Elliott, Mac Wright, Assistant Manager J. D. Kelley and Tom Wheeler.

Braves, Colts Are Deadlocked In Softball Leagues 2nd Half

Y-12's Eagles began last week's Softball action Monday by swamping the Big Shop team 7 to 1.

Frank Koon and Wayne Speller both belted out homers for the winning birds. The Big Shops hit almost as well as the Eagles did (eight to the Eagles' nine)... but scoring was another matter.

The Y-12 Braves made chowder of the J-Birds 16 to 1 in Monday's second game. Jim Shoemaker, Larry McDonald and Fred Wetzel all were big heroes with homers.

Monday's final game was a little more interesting... as the Bat Boys barely beat the Gashouse Gang 8 to 7. Hugh Beeson beat

out a homer for the winning team.

Tuesday began as the UCC All Stars took the White Sox 11 to 9.

The Colts, from down K-25 way, kept their perfect record in the second half by trimming the Beta Two team 13 to 5. Jerry Howard homered for the big winners.

The Cardinals shaved by the Pirates 11 to 10 in final play Tuesday. Jerry Davis homered, as Mack Wright and J. D. Kelly tripled.

A make-up game Wednesday saw the Eagles defeat the White Sox 16 to 3. Hugh Richards homered twice... Fred Mundt and D. H. Johnson poled one each.

League standings follow:

Team	W	L
Braves, Y-12	5	0
Colts, K-25	5	0
Eagles, Y-12	4	1
K-25 Gashouse Gang	4	2
Big Shops, Y-12	3	2
Pirates, Y-12	3	3
Cardinals, Y-12	2	3
Bat Boys, Y-12	2	3
J-Birds, K-25	1	4
Beta Two, Y-12	1	4
UCC All Stars, Y-12	1	4
White Sox, Y-12	0	5

Last Thursday's games were called because of rain. They were tentatively set for tonight, August 7.

Man's Pump Of Life Should Be Respected

The American Heart Association calls the human heart the pump of life. Your heart regulates and directs the flow of blood according to your body's needs. It normally beats 72 times a minute—24 hours a day on a lifetime shift.

The organ weighs less than a pound but pumps hard enough to lift a ton seven stories high every 24 hours. Smaller than your fist, it pumps enough blood to fill a railroad tank car every two days.

The AHA warns that cigarette smoking is injurious to the lungs, the blood vessels, and the heart. Giving up cigarettes may keep your heart pumping longer... keep you alive longer. Coupled with what the American Cancer Society says about smoking, the above facts show that it's about time you quit smoking too, isn't it?

LONG, LONG TRAIL

Two drunks wandered along the railroad tracks.

"These are the longest stairs I ever saw," one said.

"It's alright," the other one answered, "but they need to raise these hand rails just a little."

SURFACE RESISTANT

The hardest thing about skating, we have found, is the ice.

Reed-Stephens Early HossShoe Leaders

The Horseshoe League opened its second half with two extra teams added... to make a 10-team league.

Reed-Stephens jumped to an early lead by wresting nine points from Young-Holsopple. Taking seven were Raper-Eubanks over Hutto-Tillery. Luckett-Brock belted the Gray-Copeland due for five.

Team	W	L
Reed-Stephens, Y-12	9	0
Raper-Eubanks, Y-12	7	2
Luckett-Brock, ORNL	5	4
Gray-Copeland	4	5
Hutto-Tillery, ORNL	2	7
Young-Holsopple, ORNL	0	9
Case-Miller, ORNL	0	0
Wyatt-Hensley, Y-12	0	0
Durham-Bailey, ORNL	0	0
Allmon-Matheny, ORNL	0	0

Challenges—The Fun

"Suppose that everything you tried you did with simple ease; suppose that there was nothing left to puzzle or to tease; that you never had to worry, to struggle or to fight, that every task was simple and every burden light. You'd have no sense of victory to cheer at set of sun; your life would be quite easy—but where would be the fun?"

Tee-Off Time Application For Whittle Springs Tournament

Saturday, August 24

Foursome

_____, Leader

Leader's office phone _____

Home phone _____

Tee-off Time Preferred _____

Fill out completely and return to the Recreation Office, Building 9704-2 Deadline for entering is 4:30 p.m. Wednesday, August 21. Tee-off times will be drawn the next day, Thursday, August 22 at 8:30 a.m.



NEWEST TYPE OF LASER is this 1,000 watt continuous gas laser, one of the most powerful lasers in existence. It is manufactured by Union Carbide Corporation's Korad Department. The future use of the laser, one of the most powerful instruments ever invented by man, is described in "The Laser, a Light Fantastic," an episode of "The 21st Century," Sunday, August 11, at 6 p.m. over the CBS Television Network, sponsored in the public interest by Union Carbide Corporation. The program is carried locally by WBIR-TV, Channel 10.

'Laser-Light Fantastic' Is Subject For 21st Century Show Sunday, Aug. 11

The vast potential of the laser, one of the most promising tools of twenty-first century technology, will be examined in "The Laser, a Light Fantastic," an episode of "The 21st Century." It will be broadcast Sunday, August 11, at 6 p.m., EDT, in color on the CBS Television Network. The program is aired locally by WBIR-TV, Channel 10. CBS News Correspondent Walter Cronkite is principal reporter for the series, which is sponsored in the public interest by Union Carbide Corporation.

Cronkite says in the broadcast that "the creation of the laser was an ancient dream come true—the ray of light that heals." The word laser is composed of the initials

of Light Amplified by Stimulated Emission of Radiation, and it is one of the most powerful instruments known to man today.

Its healing faculties are demonstrated in the broadcast by bloodless, painless surgery on the retina of a human eye. A far more powerful laser than the one used in surgery is demonstrated in Union Carbide laboratories. Its beam is emitted from gas, instead of from the synthetic crystals used for many lasers. The gas laser (CO₂) can develop a power density of a quarter billion watts per square inch and can be focused down to a point 1/1000th of an inch in diameter.

"The Laser, a Light Fantastic," on "The 21st Century," Sunday, at 6 p.m., WBIR-TV, Channel 10.

Gasoline Tax High For Tennesseans

Only two states in the Union have higher gasoline taxes than Tennessee does. The states of Washington (9¢) and Alaska (8¢) exceed the Volunteer State's tax of 7 cents.

Tennesseans pay a total of 11 cents per gallon on taxes for their motor fuel . . . four cents federal tax, and seven state tax.

YOU SAID A MOUTHFUL

Gammamethacryloxypropyltrimethoxysilane is a mouthful in more ways than one! Called "silane" for short, it's the name of a new chemical adhesive being used to bond porcelain teeth to denture plastic. Developed by the National Bureau of Standards, in cooperation with the American Dental Association, the new method

Watkins Son Improves After Heart Surgery

The R. E. Watkins family (he's in M-Wing Shop), of Delano, are mighty happy folks these days. Twelve-year-old son Michael is home recovering from open heart surgery at Johns Hopkins Hospital. Mike had the main aorta leading from his heart patched.

Watkins says the boy is progressing real well . . . and the family wishes to express their appreciation for the thoughts and real help that came their way from fellow employees during the difficult times just past.

of bonding is expected to save millions of dollars annually for denture wearers by reducing breakage, staining, and leakage of food and bacteria between the teeth and the acrylic plastic base.

Discussion Group To Be Formed Here

A training program sponsored by the Friends of the Library designed to produce leaders for the Junior Great Books discussion groups will be conducted by a representative of the Great Books Foundation in Oak Ridge. The program is scheduled to begin Wednesday, September 11. The classes will be held in the Education Building of the United Church each Wednesday thereafter for eight weeks. The participants may attend either the 1:30 or 7:30 p.m. sessions.

This program teaches the potential leader the technique of leading group discussions—particularly for the Junior Great Books—but, generally, the technique is applicable to any discussion on just about any subject.

Persons interested in this experience in learning who would like to master the technique of discussion leadership should notify either W. S. Dritt, Oak Ridge telephone 483-0840, or H. H. Stoner, 483-5035. A check, made out to Friends of the Library, for the \$8 cost of the books used in the course should be in their hands by next Wednesday, August 14.



The second week in August finds more Y-12ers (eight in all) becoming Old-Timers than any week in history! Others observe important landmarks, too, with Union Carbide Corporation. Congratulations.

25 YEARS

Clarence E. Harris, Research Services, August 9.

Sarah B. Coram, Stores Department, August 10.

Harry L. Dickinson, Fire Department, August 10.

Bruce C. Harrington, Research Services, August 10.

Irene H. Bryan, Cafeteria, August 11.

Bessie M. Phillips, Chemical Services, August 12.

Margaret H. Eager, Production Analysis, August 13.

Alvin L. Scarbrough, Salvage Department, August 13.

20 YEARS

Virginia J. Boswell, Superintendents Division, August 13.

15 YEARS

Willis F. Grigsby, Area Five Maintenance, August 10.

Charles E. Irwin, Ceramics and Plastics Development, August 10.

Woodrow Jackson, Research Services, August 10.

William D. Langford, Stores Department, August 10.

Robert L. McIlwain, General Weld Shop, August 10.

Chester R. Rea Jr., Gage Certification Laboratory, August 10.

Raymond E. Seivers, Process Maintenance, August 10.

James E. Summers Jr., Research Services, August 11.

Chester A. Franklin, General Weld Shop, August 12.

Lilburn H. Hensley, Assembly Operations, August 12.

10 YEARS

Henry D. Witt, Beta Two Shop, August 9.

William L. Beals, M-Wing Shop, August 11.

Fred T. Beaver Jr., General Field Shops, August 11.

Thomas C. LaKue, H-2 and F-Area Shops, August 11.

Frederick T. McNamara, Dimensional Inspection, August 11.



UNION CARBIDE CORPORATION
NUCLEAR DIVISION
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

RETURN REQUESTED

(Do Not Forward—Return Postage Guaranteed)

BULK RATE
U.S. Postage
PAID
Oak Ridge, Tenn.
Permit No. 71



'MILITARY APPLICATIONS OF DATA PROCESSING' was the subject of a seminar conducted recently by the Naval Research Reserves at the U.S. Naval Academy, Annapolis, Maryland. Lt. Comdr. John B. Cory Jr., USNR, left is seen looking over part of the computer. With him, from left, are Comdr. Robert L. Boswell, Lt. Comdr. Norris L. Fant, and Cmdr. Howard E. Cochran, Kingston.

Cory Attends Naval Reserve Seminar 'Data Processing-Military Applications'

Lieutenant Commander John B. Cory, USNR, recently attended a two-week seminar on "Military Applications of Data Processing" held at the U. S. Navy Academy, Annapolis, Maryland. The seminar was held June 10-21.

Opening the program was the keynote address from Rear Admiral Thomas B. Owen, USN, Chief of Naval Research, and a presentation by Norman J. Ream, Special Assistant (data processing) to the Secretary of the Navy.

The seminar brings together well-qualified speakers from the three services who demonstrate the applications of large data processing systems in command and support activities.

The program also includes field

trips to major installations in the Washington area, such as NASA's Goddard Space Flight Center, U. S. Army Map Service, and U. S. Air Force Headquarters.

The seminar is one of several sponsored each year by the Office of Naval Research for participants in the Naval Research Reserve Program.

Cory is in Y-12's Facilities Engineering.

Personal Bankruptcy Is Increasing Too Fast

Is personal bankruptcy becoming a way of life in this country? Only one of 12 bankruptcies today is a business failure. The other 11 are personal . . . as many citizens become the victims of the unwise use of easy credit.

Don't be bamboozled into the false economy of easy credit. Remember, you don't get anything for nothing!

See your Y-12 Credit Union for sound advice on borrowing or saving. The credit union is yours, use it!

CARPET IN THE KITCHEN

The long-time dream of many fastidious homemakers is now a reality—thanks to chemical progress. Carpets are being made of polypropylene for use in kitchens and bathrooms, on patios and front walks, and even on swimming pool and boat docks. They're highly resistant to stains, bleaches, and fading. Since they're impervious to water, polypropylene carpets won't rot or mildew. And, they're non-static and non-allergenic.

HOW'S THAT AGAIN?

"I don't know if I'm as fast as I was, but I don't think I'm any slower." Boxer Floyd Patterson.



A CUTE NUMBER indeed is Kimberley Dawn Gibson, 18 months old granddaughter of R. E. Gibson, General Machine Shop. Kimberley is the daughter of Mr. and Mrs. Wayne Gibson.